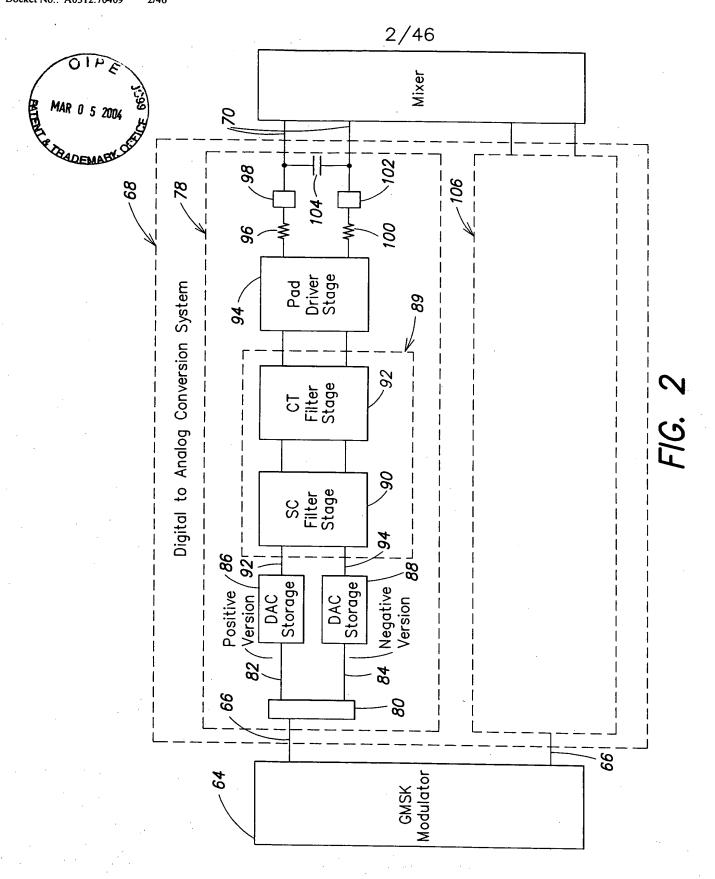


FIG. 1



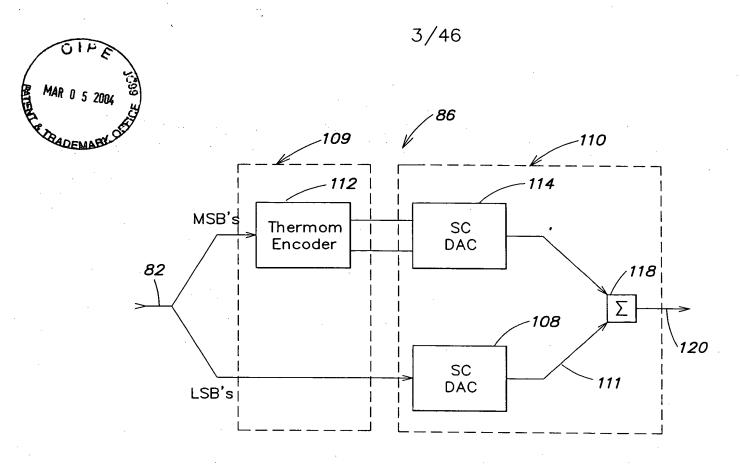


FIG. 3

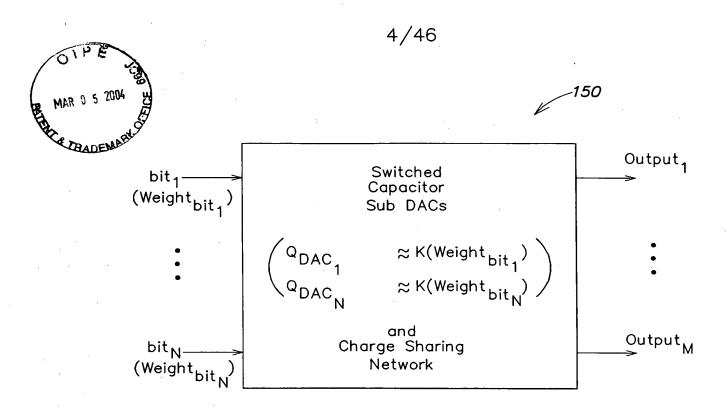


FIG. 4

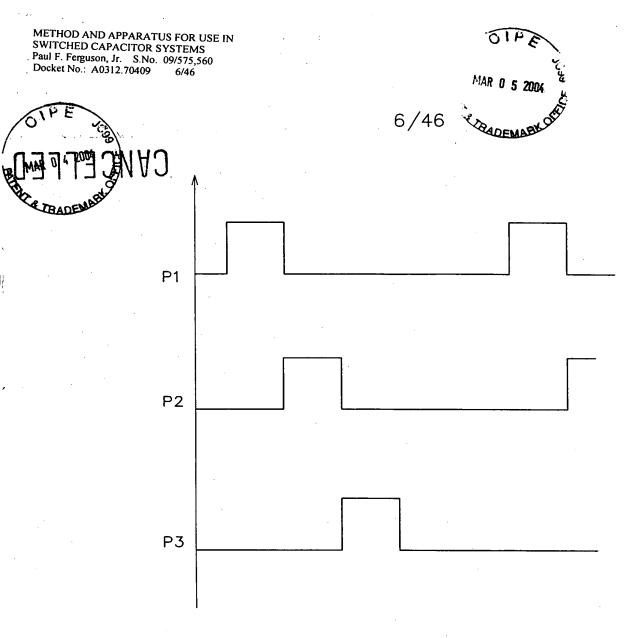


FIG. 6

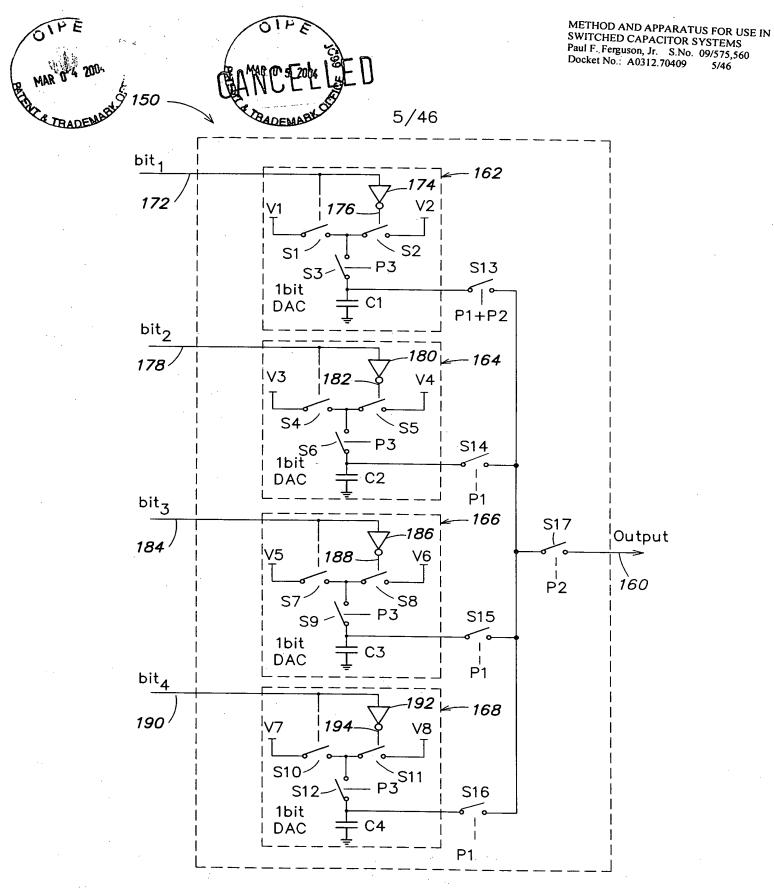
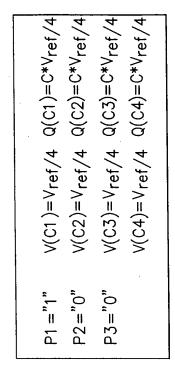


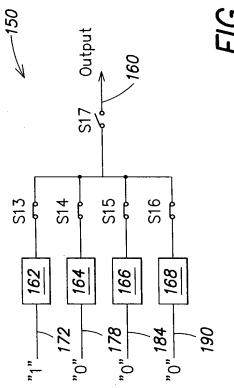
FIG. 5



No.	Q(C1)=C*V _{ref}	Q(C2)=0	Q(C3)=0	Q(C4)=0	
	V(C1)=V _{ref}	V(C2)=0	V(C3)=0	V(C4)=0	
	P1="0"	P2="0"	P3="1"		

1	T/
	<u>.</u>
L	1





150	S17 Output	091		
"1" S13	"0" 172 S14	"0" 178 166 S15	"0" 184 168 516	190

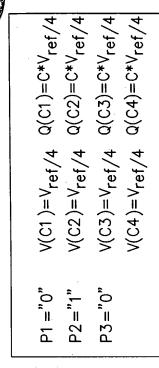
S13

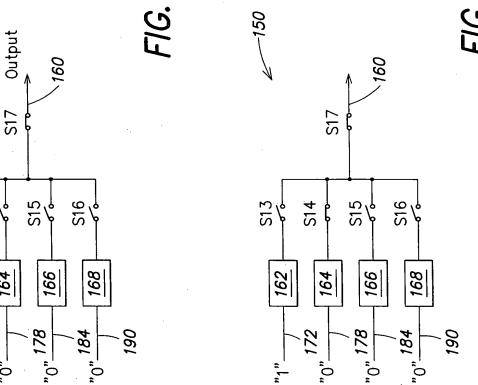
162

S14

164





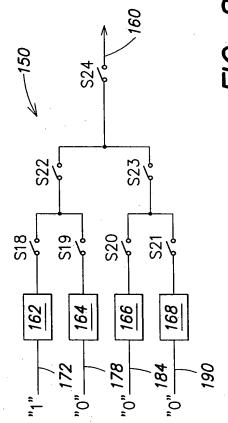




9	/	4	6

		-
P1 =0	$V(C1) = V_{ref}$	Q(C1)=C*V _{ref}
P2=0	V(C2)=0	Q(C2)=0
P3=1	V(C3)=0	Q(C3)=0
P4=0	V(C4)=0	Q(C4)=0

•.		
P1 =0	$V(C1) = V_{ref}/2$	$V(C1) = V_{ref}/2 Q(C1) = C*V_{ref}/2$
P2=0	$V(C2)=V_{ref}/2$	Q(C2)=C*V _{ref/2}
P3=0	V(C3)=0	Q(C3)=0
P4=1	V(C3)=0	Q(C4)=0



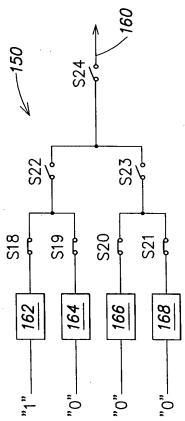
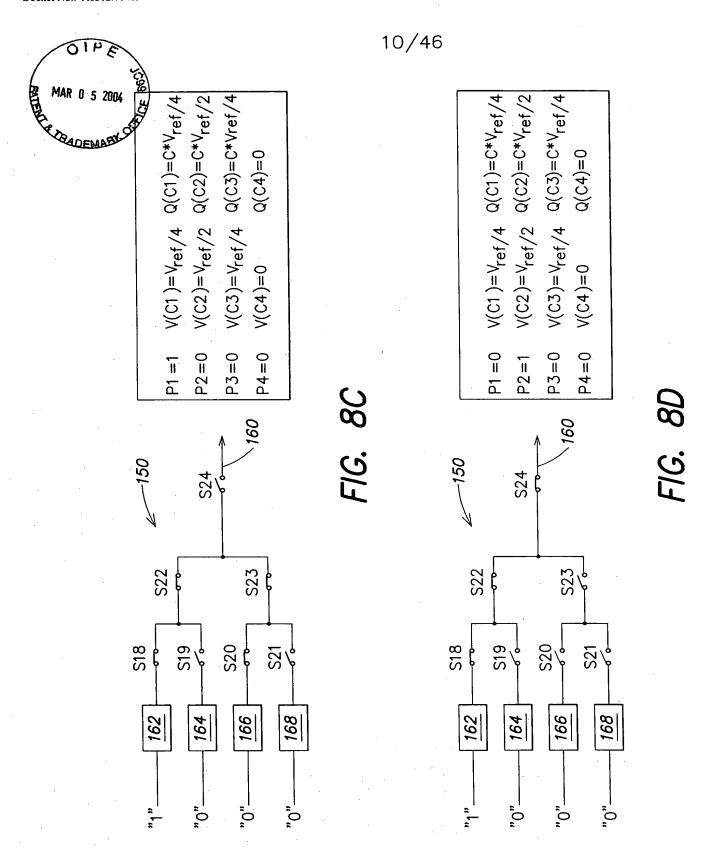


FIG. 8B



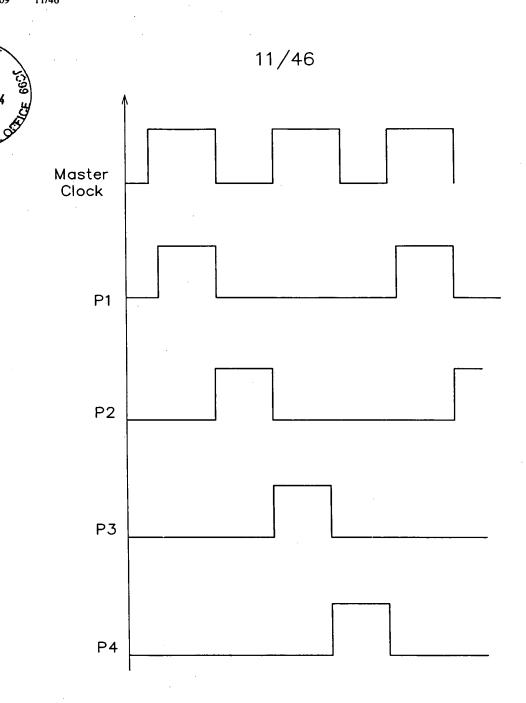
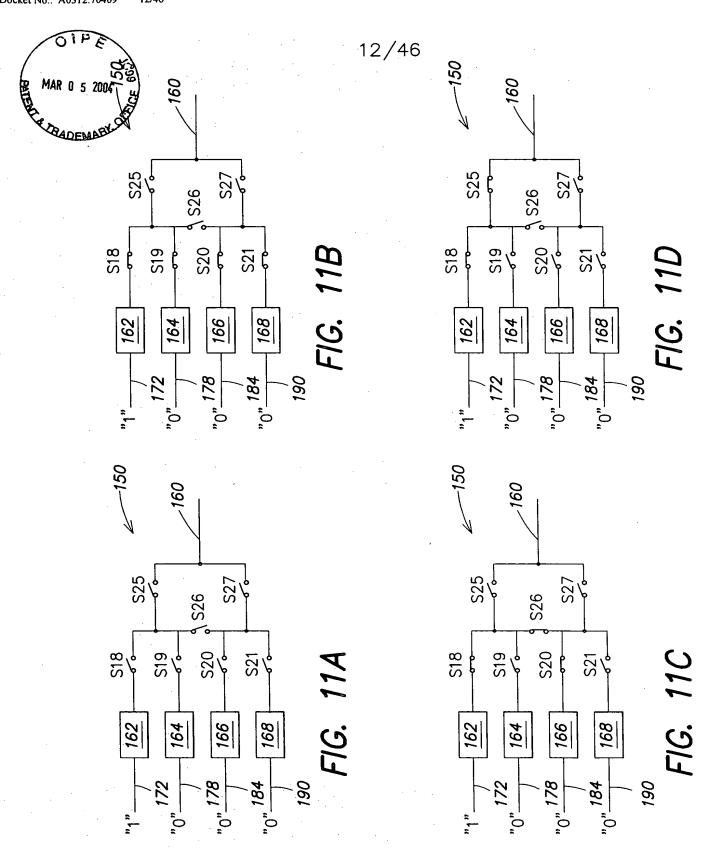
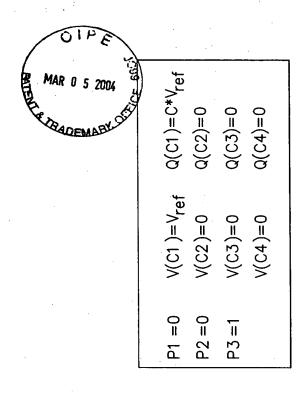


FIG. 9





S32

S29

164

S28

162

V
12
~
S.
F

S33

S31

168

184

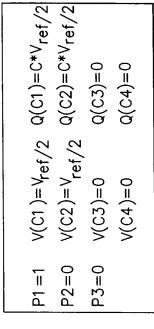
0.

190

S30

991

, 0



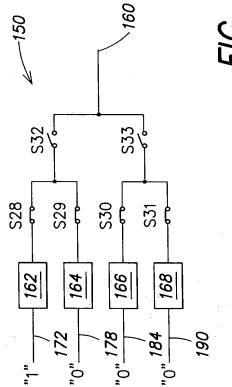


FIG. 12B 160



P1 = 0 $V(C1)=V_{ref}/2$ $Q(C1)=C*V_{ref}/2$	Q(C2)=C*V _{ref/2}	Q(C3)=0	Q(C4)=0	
$V(C1)=V_{ref}/2$	$V(C2)=V_{ref}/2$	V(C3)=0	V(C4)=0	
P1 =0	P2=1	P3=0		

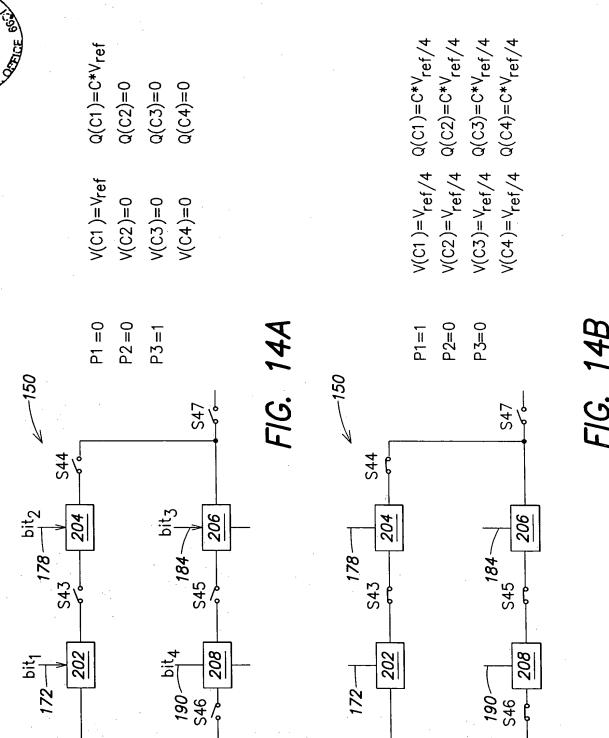
FIG. 12C

FIG. 13

bit₄

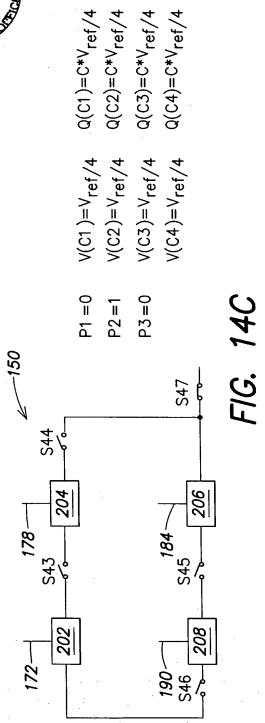
190

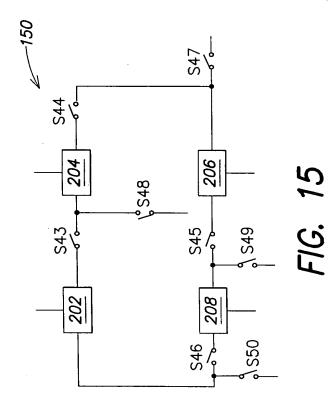












OIP

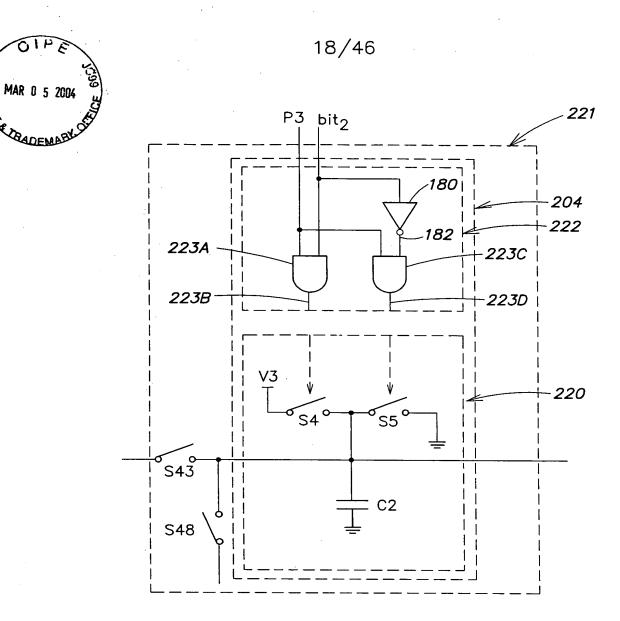


FIG. 16A



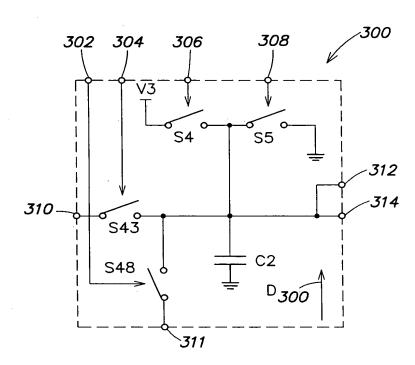


FIG. 16B

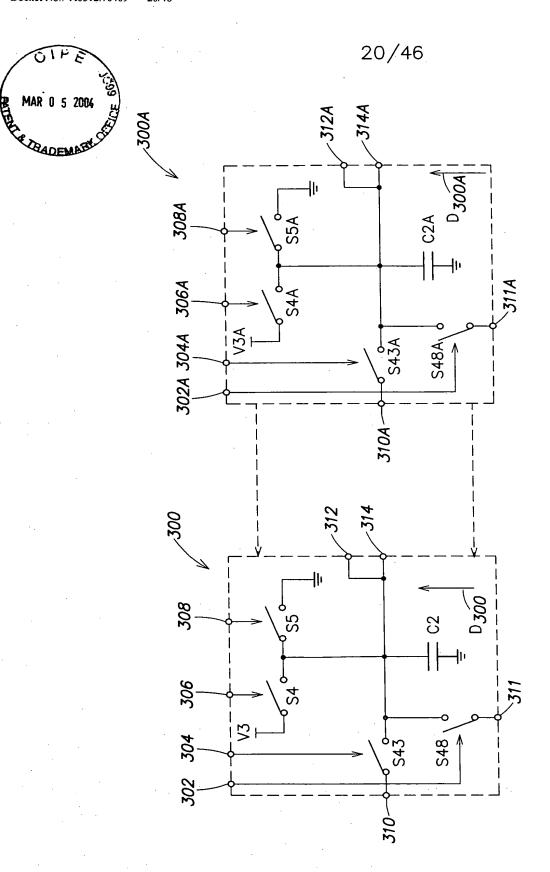


FIG. 16C

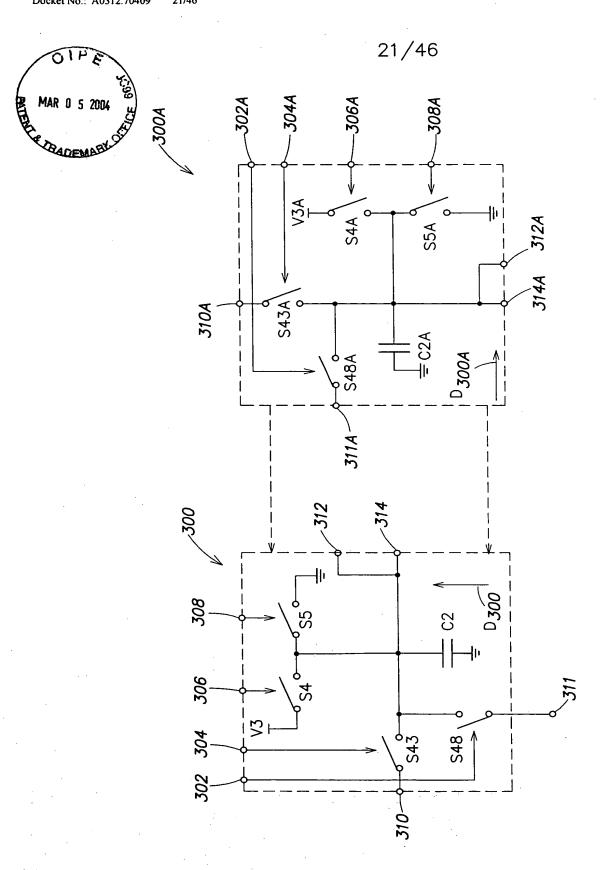


FIG. 16D

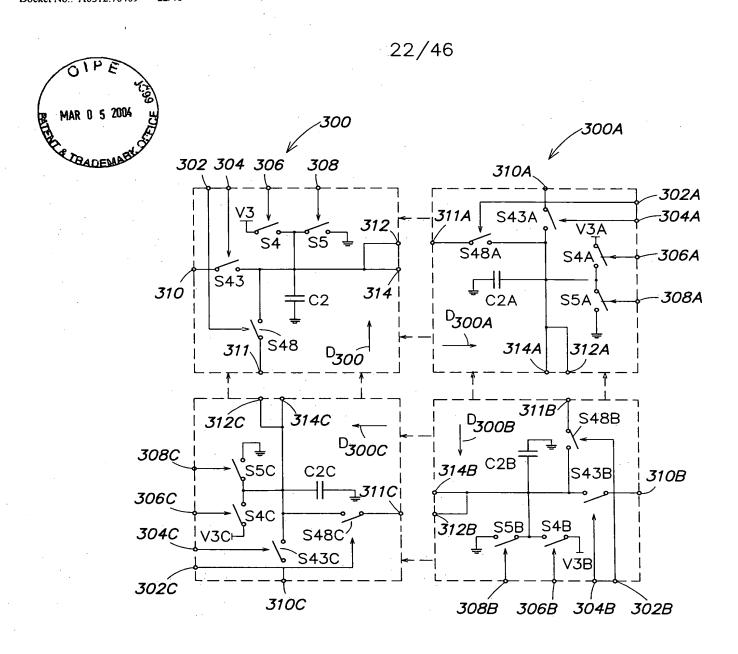


FIG. 16E

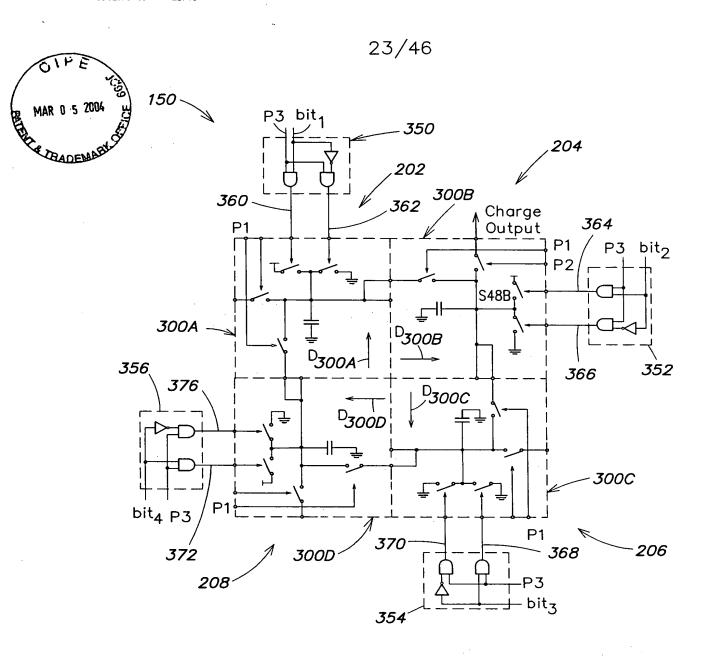


FIG. 17

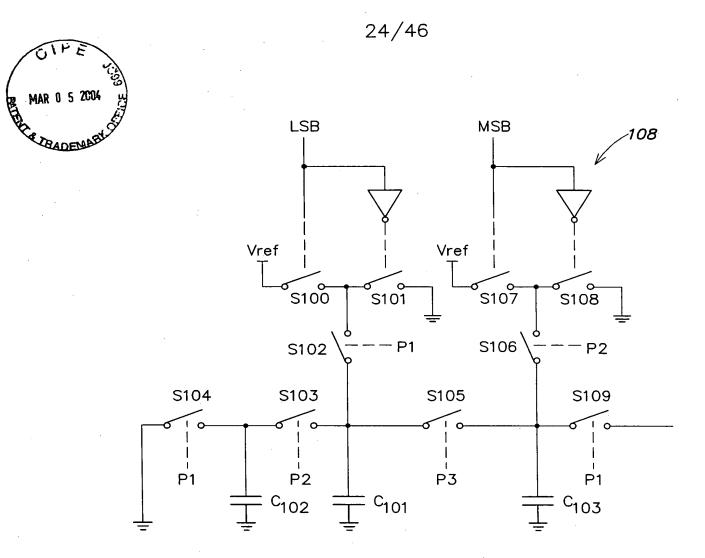
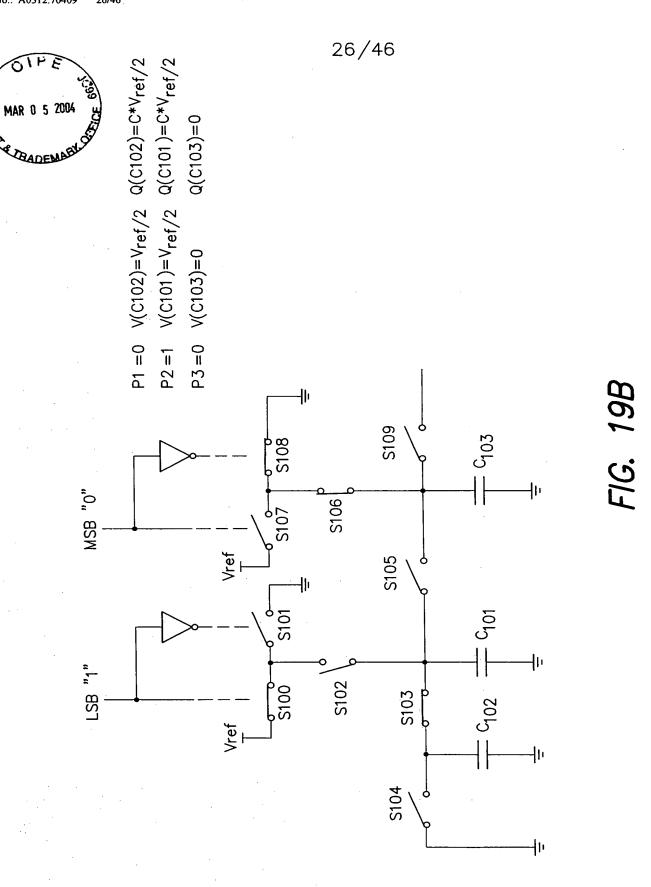
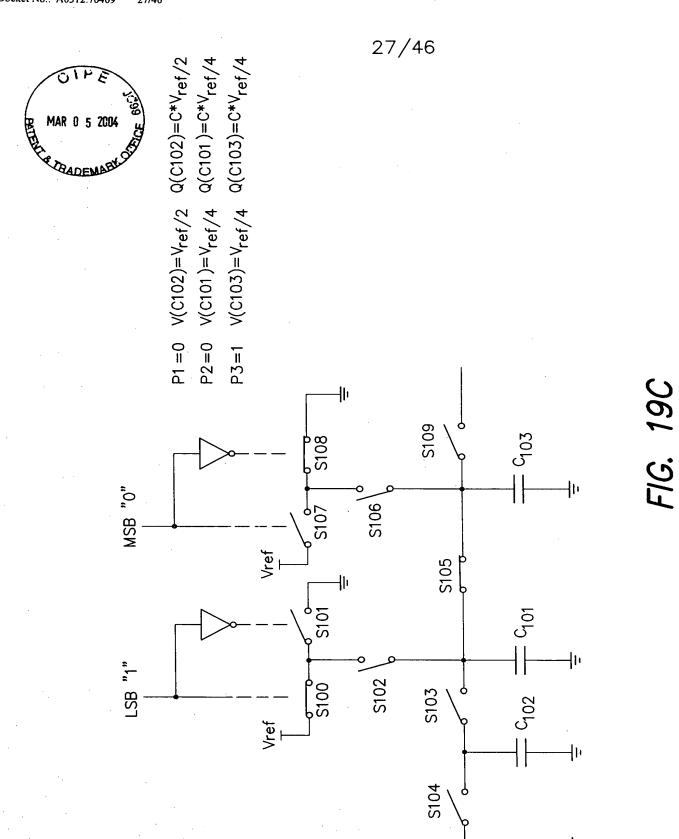


FIG. 18





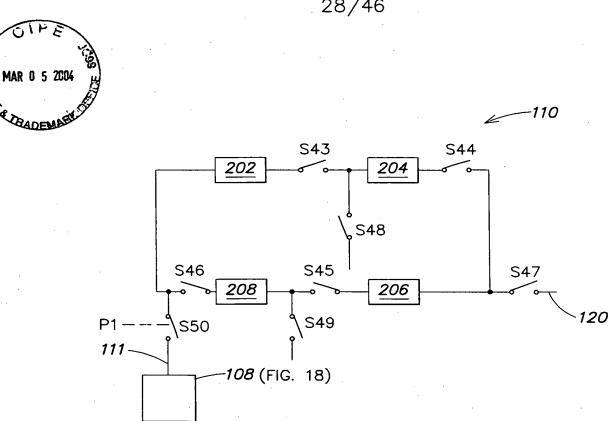
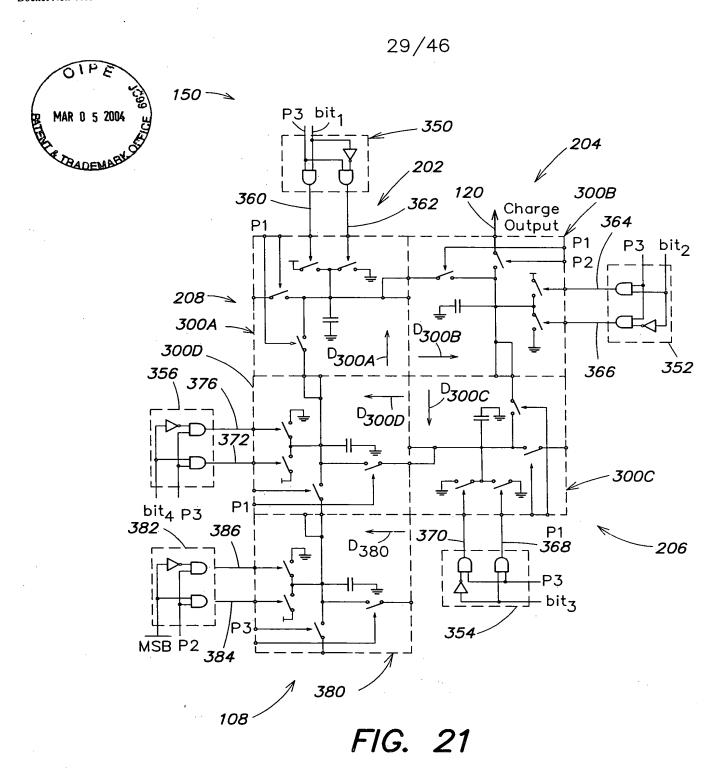


FIG. 20



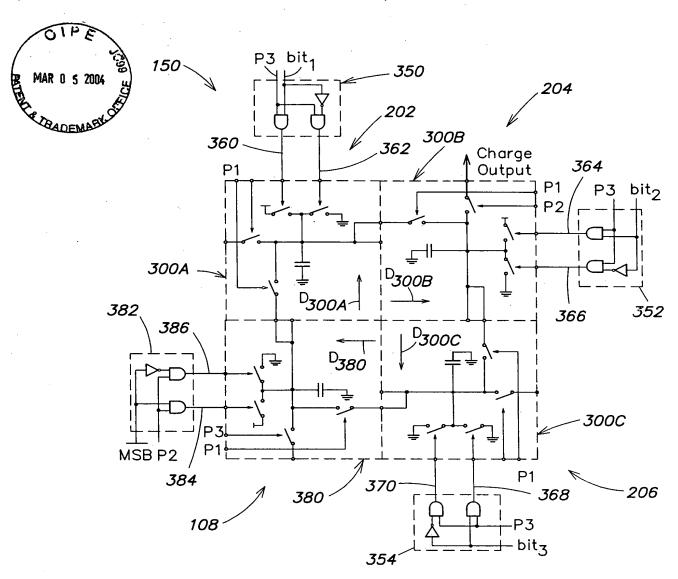
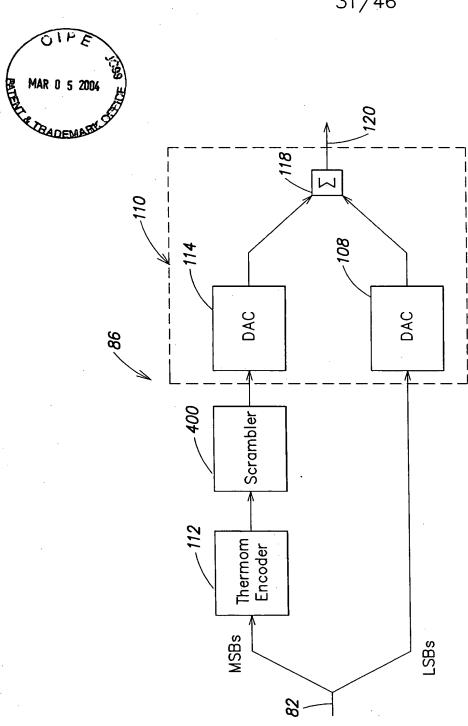


FIG. 22



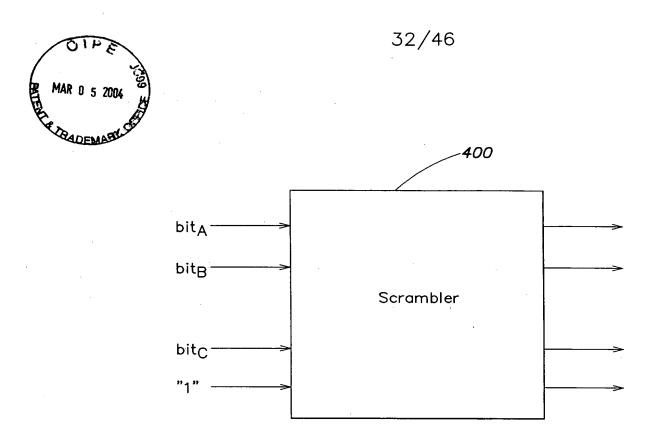


FIG. 24

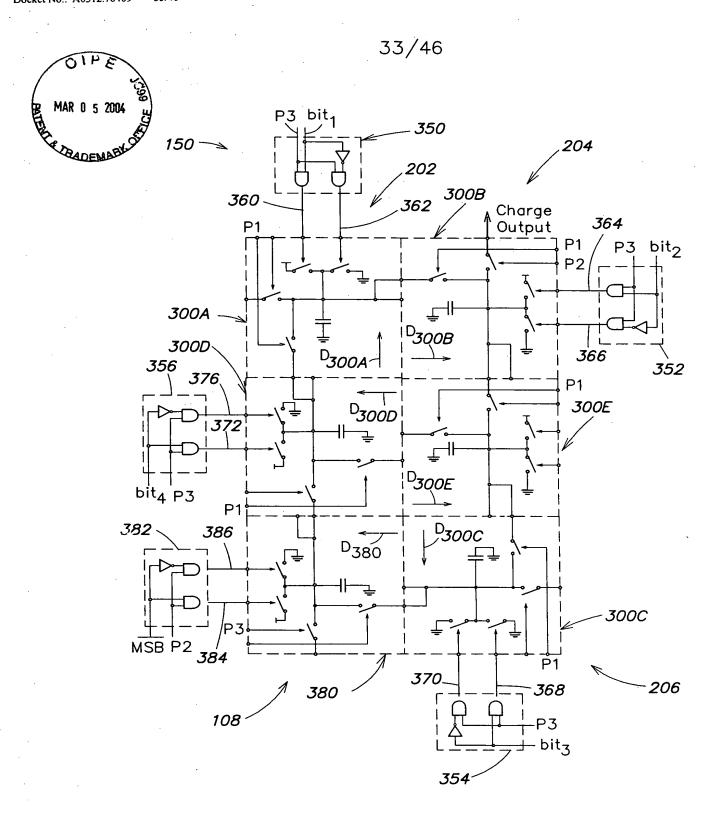
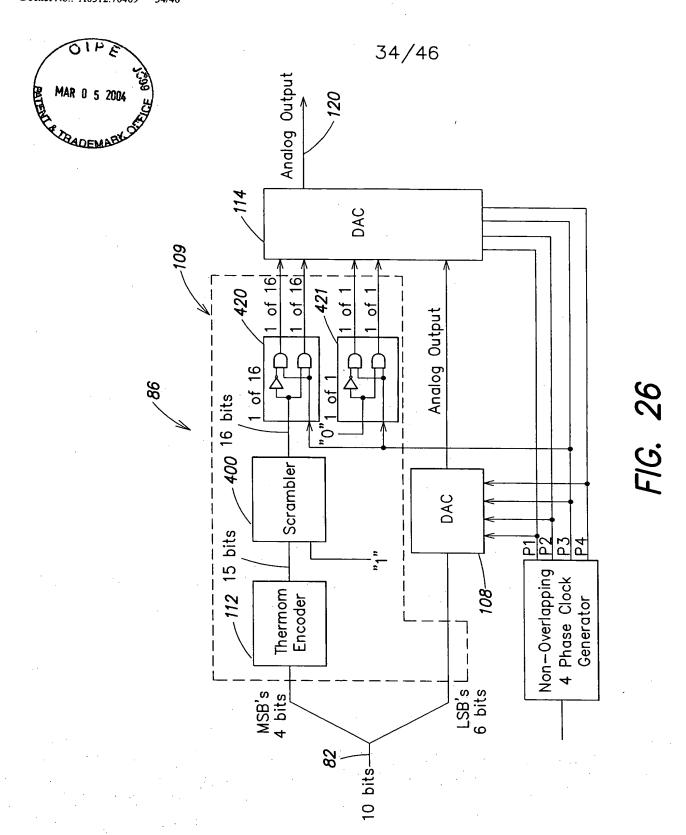
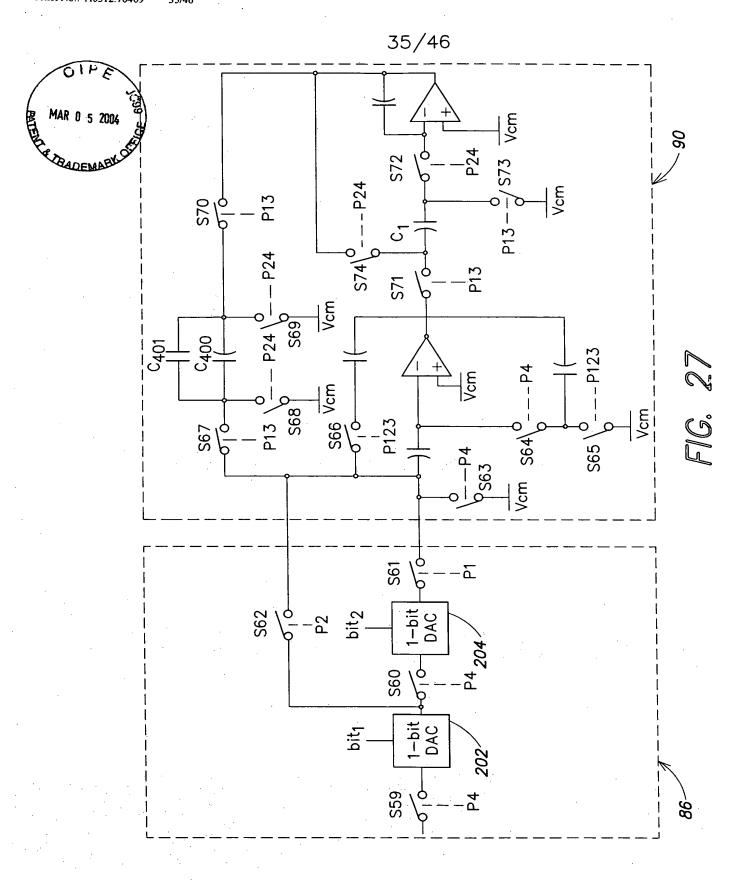


FIG. 25





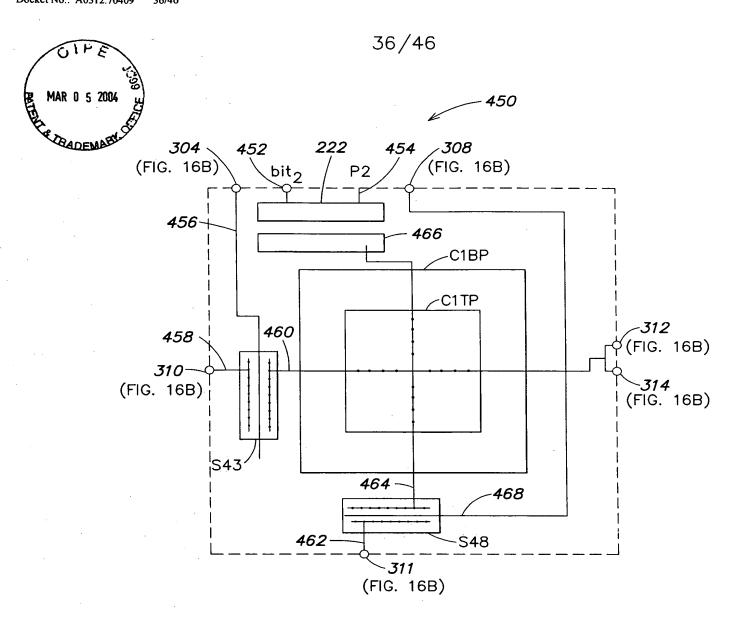


FIG. 28A

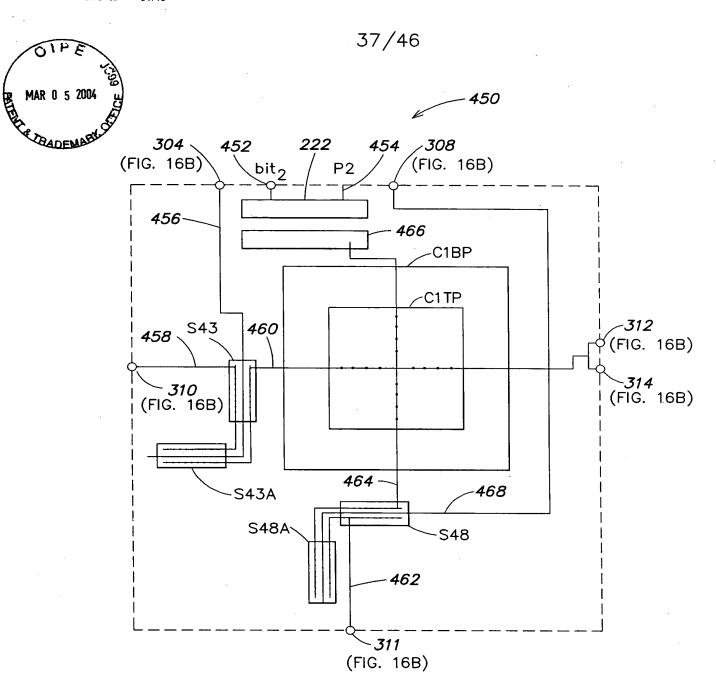


FIG. 28B



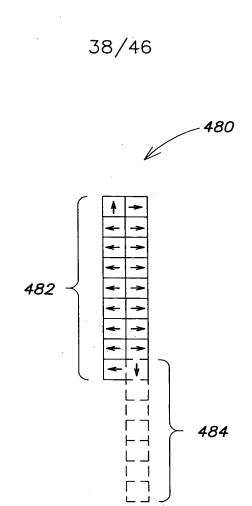


FIG. 29



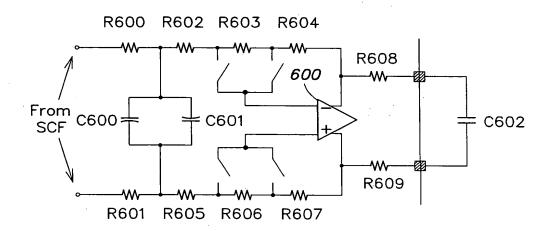


FIG. 30

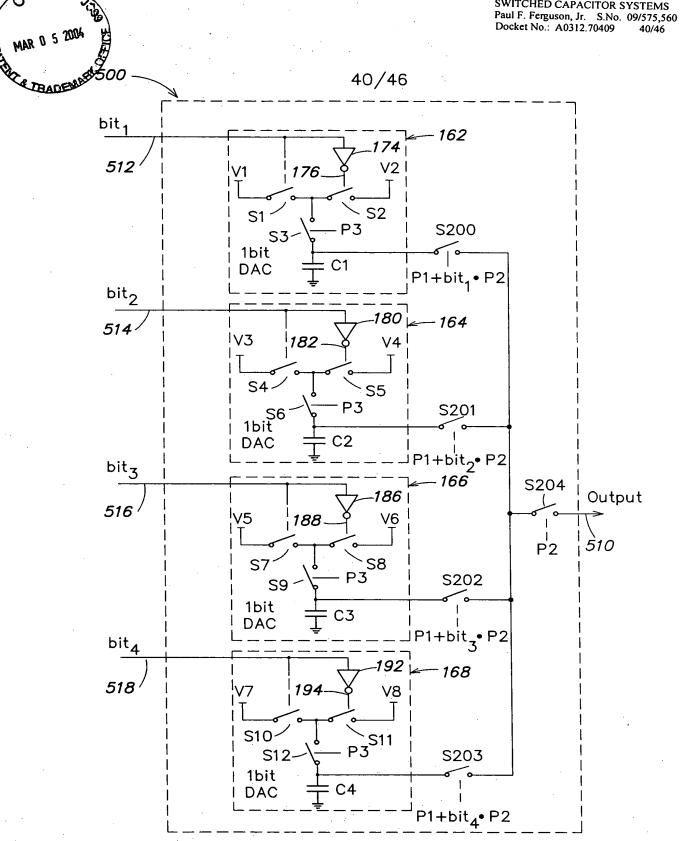


FIG. 31

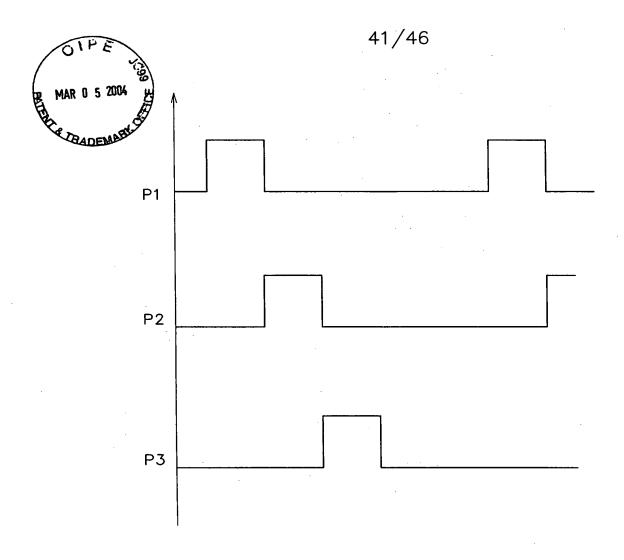
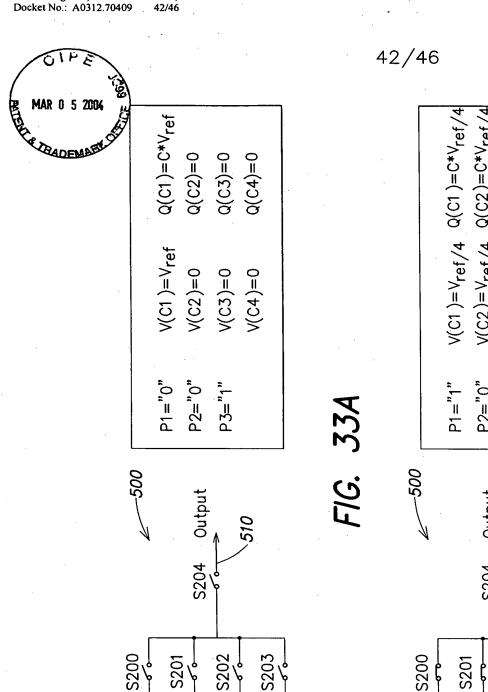
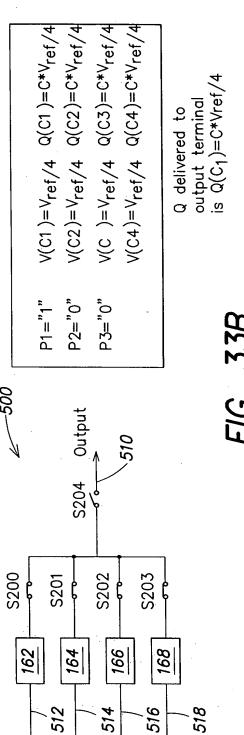


FIG. 32



"0"-514





f/4	f/4	f / 4	
Q(C1)=C*V _{rei}	Q(C2)=C*Vre	Q(C3)=C*Vre	
V(C1)=Vref/4 Q(C1)=C*Vref/4	$V(C2)=V_{ref}/4$ Q(C2)=C*V _{ref} /4	V(C3)=Vref/4 Q(C3)=C*Vref/4 V(C4)=Vref/4 Q(C4)=C*Vref/4	
P1 = "0"	P2="1"	P3="0"	

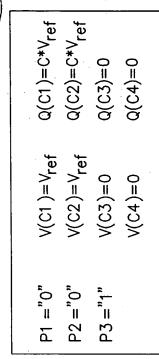
Q delivered to output terminal is Q(C₁)=C*Vref/4

FIG. 33C

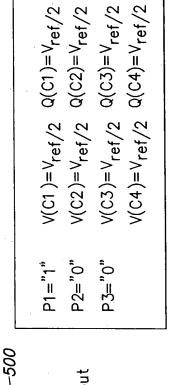


4	4	/	4	6

44/46



Y	
34,	



Output

S204

S201

512

164

S202

166

Ö

S203

168

516

0

518

S200

162

Q delivered to output terminal is $Q(C_1)+Q(C_2)=C*Vref/2+C*Vref/2=C*Vref$

200	S204 Output	510		
1," S200	'1" 512 S201	0 514 166 500	0 516 168 5203	518



$=V_{ref}/2$ Q(C1)= $V_{ref}/2$		$V(C1) = V_{ref/2}$ Q(C1.)	$V(C1)=V_{ref}/2$	
			$V(C2)=V_{c,c}/2$	
			V(C1)=V _{ref} /2 V(C2)=V _{c.6} /2	$V(C1) = V_{ref}/2$ $V(C2) = V_{ref}/2$
_	.'	$V(C2) = V_{ref}/2$ $V(C2) = V_{ref}/2$		
> >	$(1) = V_{re}$	$V(C1) = V_{re}$ $V(C2) = V_{se}$	_	_
	(1) (2)	V(C1)= V(C2)=	_	_

S204 Output

S202

166

Ö

S203

168

0

S200

162

S201

512

164

Q delivered to output terminal is $Q(C_1)+Q(C_2)=C*Vref/2+C*Vref/2=C*Vref$

FIG. 34C





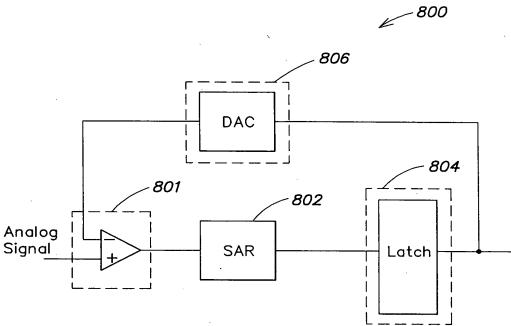


FIG. 35